AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application.

- 1 26. (Canceled)
- 27. (Withdrawn) A method of producing a recombinant virus-like particle comprising:
 - (a) providing a viral genome;
 - (b) isolating at least one viral coat protein sequence;
- (c) inserting at least one first exogenous sequence encoding a protein or peptide of interest into the coat protein sequences;
- (d) inserting at least one second exogenous sequence encoding a targeting sequence;
- (e) cloning the viral coat protein sequence comprising the first and second exogenous sequences into an appropriate vector; and
 - (f) transforming an appropriate host.
- 28. (Withdrawn) The method of claim 27, wherein the first exogenous sequence encodes a protein or peptide that is antigenic in an animal.
- 29. (Withdrawn) The method of claim 27, wherein the first exogenous sequence encodes a protein or peptide that is an allergen in an animal.

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- 30. (Withdrawn) The method of claim 27, wherein more than one first exogenous sequences is inserted.
- 31. (Withdrawn) The method of claim 27, wherein one or more of the second exogenous sequences has the function of targeting the complex to a specific location.
- 32. (Withdrawn) The method of claim 27, wherein more than one viral coat protein is isolated.
- 33. (Original) A recombinant virus-like particle produced by the method of claims 27-32.
- 34. (Original) A genetic construct comprising at least one viral coat protein containing exogenous sequence for displayed peptides or proteins.
- 35. (Original) The construct of claim 34, wherein more than one viral coat protein has been modified to display foreign proteins or peptides.
- 36. (Original) The construct of claim 34, wherein more than one non-identical exogenous sequence has been inserted.

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- 37. (Original) The construct of claim 34, wherein the exogenous sequence is inserted into a region truncated to remove sequence unnecessary for virus-like particle self-assembly.
- 38. (Original) The genetic construct of claim 34, wherein the exogenous sequence is antigenic in an animal.
- 39. (Original) The genetic construct of claim 34, wherein the first exogenous sequence is allergenic in an animal.
- 40. (Original) A recombinant virus-like particle produced from the genetic construct of claims 34-39.
- 41. (Withdrawn) A method of using the recombinant virus-like particle of claims 34-39 as a vaccine, comprising:
 - (a) providing the recombinant virus-like particle; and
 - (b) administering it to a subject.
- 42. (Withdrawn) The method of claim 41, further comprising:
 - (a) infecting an organism with the recombinant virus-like particle of claim40; and

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- (b) orally feeding the whole biomass of the infected organism to human or non-human animals.
- 43. (Withdrawn) The method of claim 42, wherein the biomass is processed for uniform dosing.
- 44. (Withdrawn) The method of claims 41-43, wherein the biomass is freeze dried.
- 45. (Withdrawn) The method of claims 41-43, wherein the biomass is encapsulated.
- 46. (Withdrawn) The method of claims 41-46, wherein the vaccine is used as a treatment for allergy.
- 47. (Withdrawn) The method of claim 41, wherein the vaccine is administered by injection.
- 48. (Original) A vaccine comprising the recombinant virus-like particles of claims 34-39, wherein the particles are isolated.